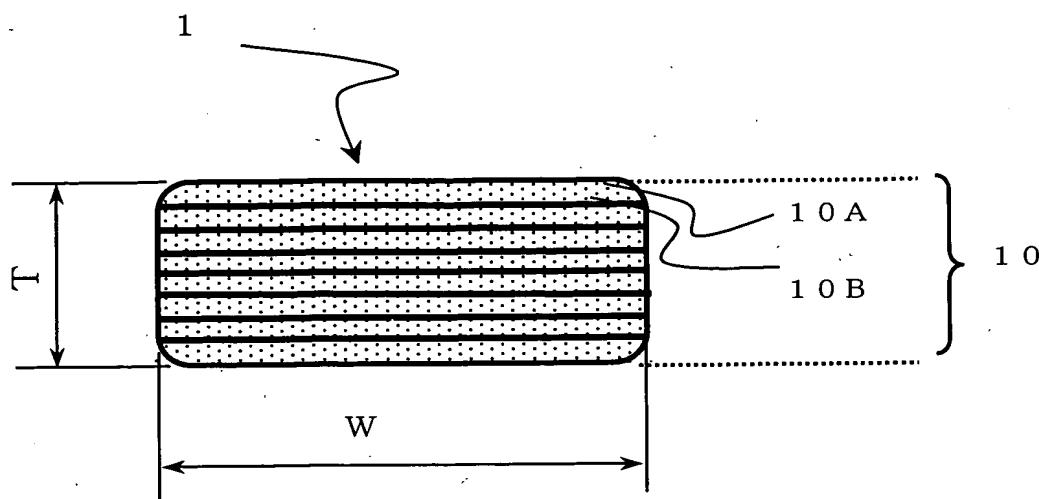


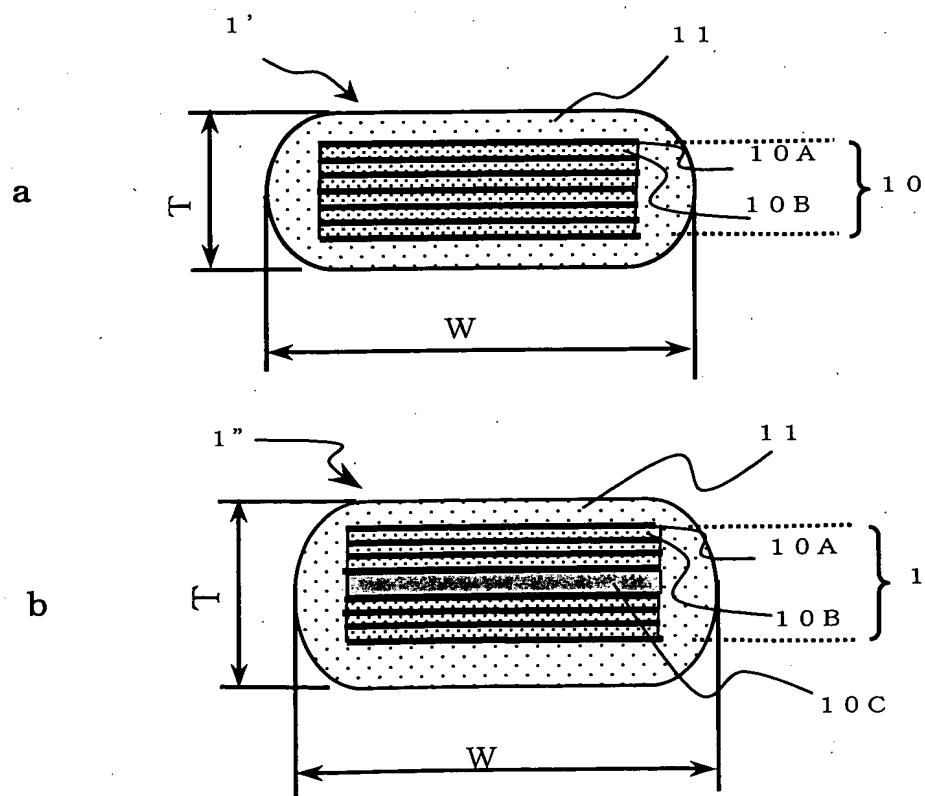
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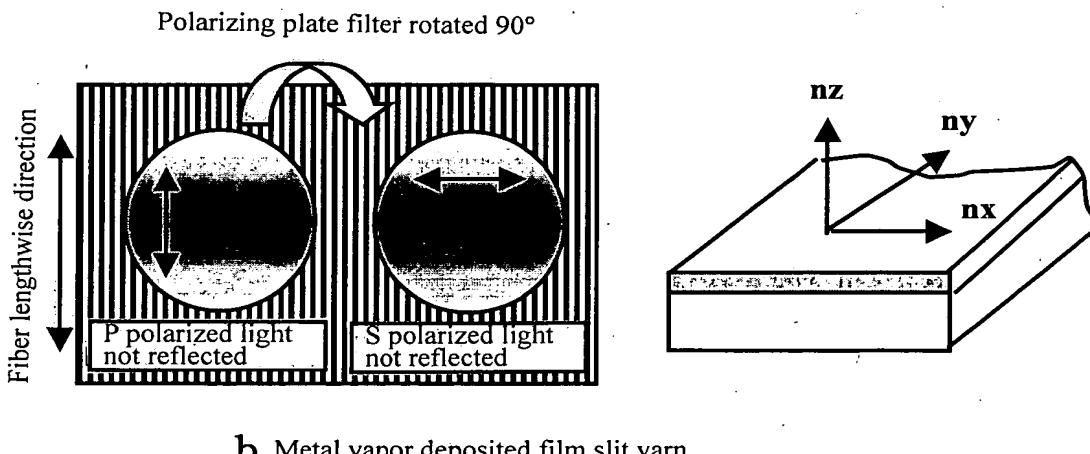
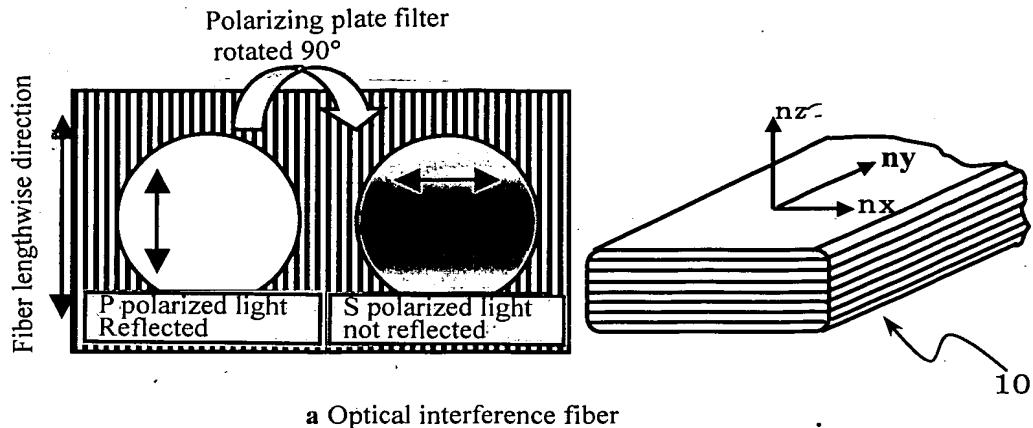
[Fig. 1]



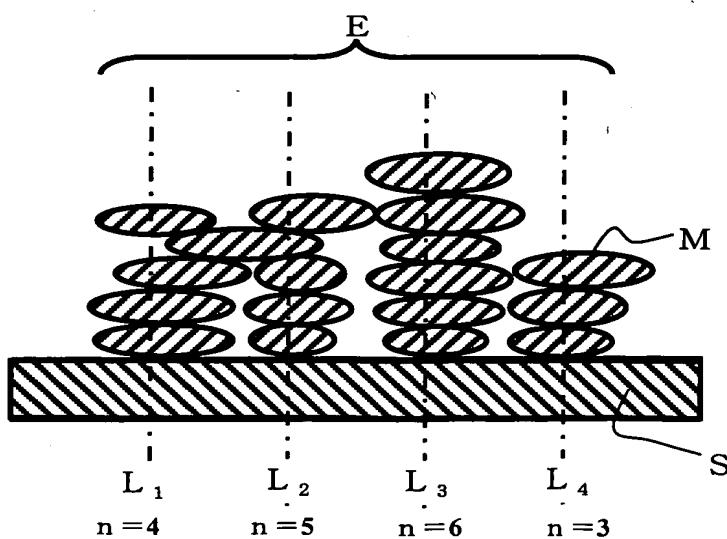
[Fig. 2]



[Fig. 3]



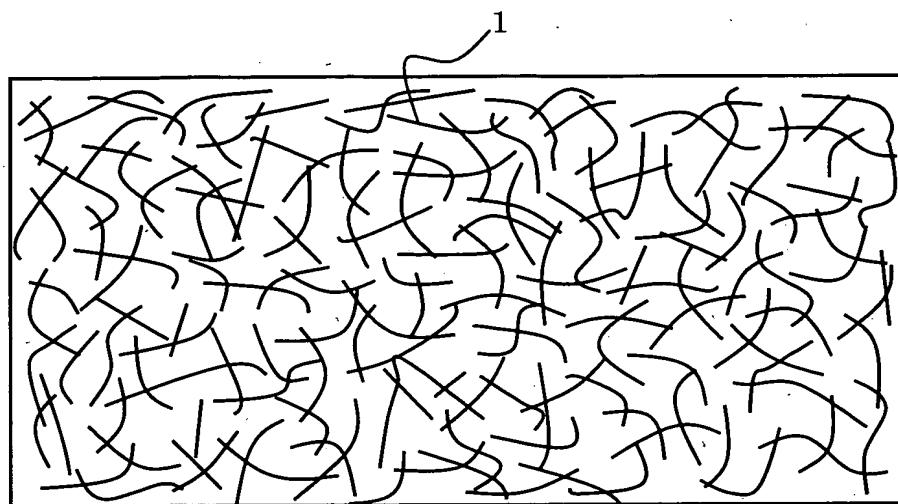
[Fig. 4]



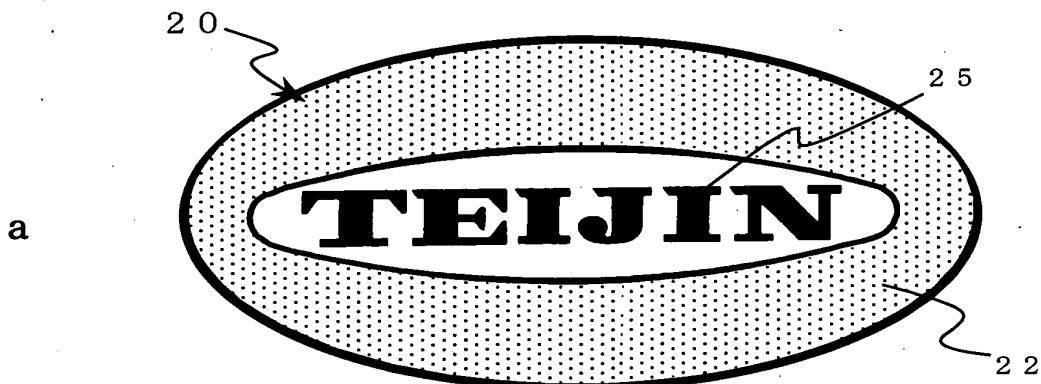
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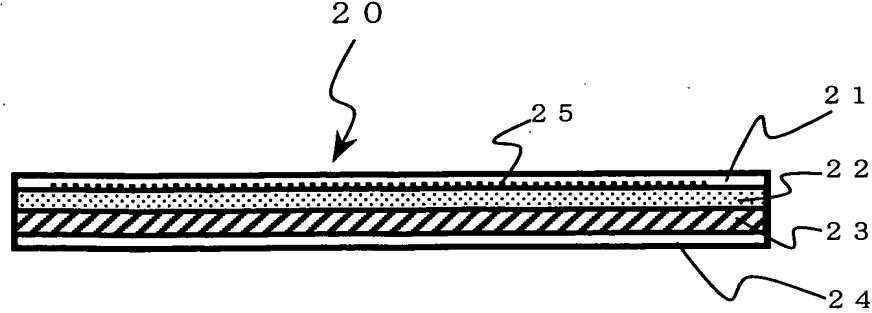
[Fig. 5]



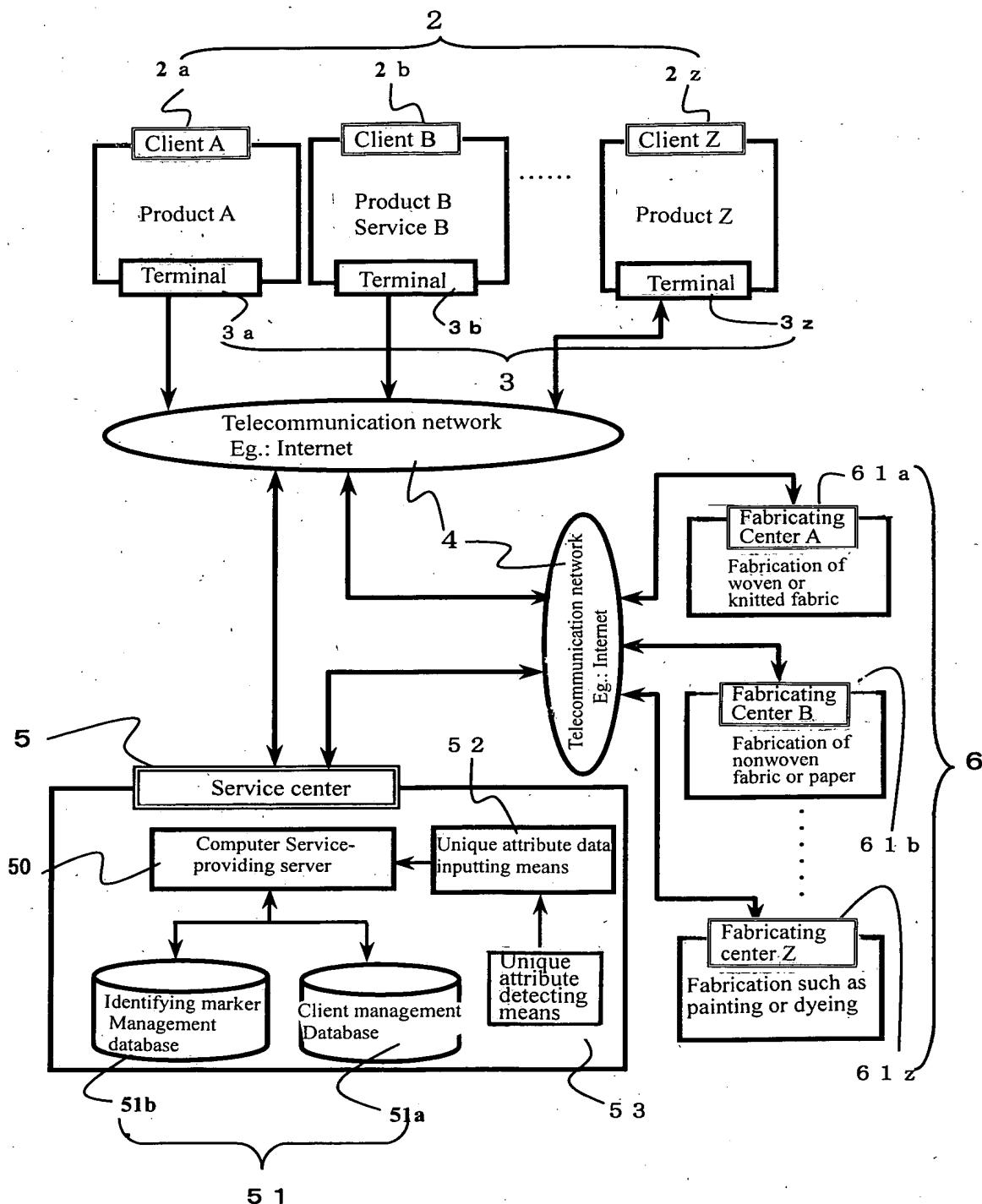
[Fig. 6]



b



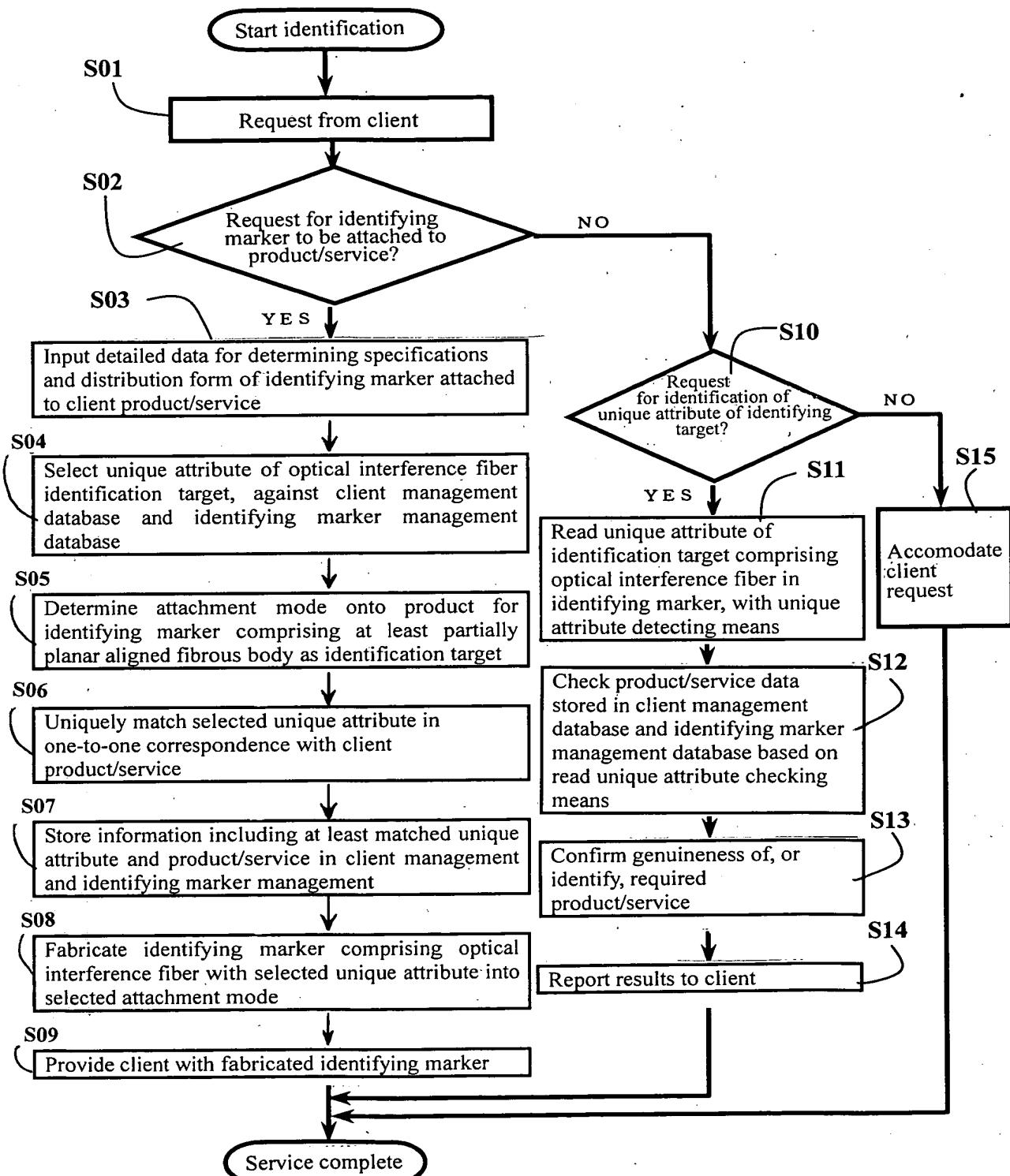
[Fig. 7]



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[Fig. 8]



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[Fig. 9]

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Sample No.	Fiber 1	Fiber 2	Fiber 3	Fiber 4	Fiber 5	Fiber 6
Polymer A	I-PENFT <sup>*1</sup>	I-PET <sup>*2</sup>	I-PET1 <sup>*3</sup>	I-PET2 <sup>*4</sup>	PENFT <sup>*5</sup>	PS <sup>*6</sup>
Polymer B	NY6 <sup>*7</sup>	PMMA <sup>*8</sup>	PMMA <sup>*8</sup>	NY6 <sup>*7</sup>	PET <sup>*9</sup>	NY6 <sup>*7</sup>
SP 1	21.2	21.5	21.0	21.5	22.2	17.4
SP 2	22.5	18.3	18.3	22.5	21.5	22.2
SP ratio	0.91	1.17	1.15	0.96	1.03	0.77
W1 <sup>*10</sup> nm	80	95	70	72	70	120
W2 <sup>*11</sup> nm	85	110	73	78	61	150

\*1. I-PENTFT: 5-Sodium isophthalic acid (1.5 mol%) copolymerized polyethylene 2,6-naphthalate

\*2. I-PET1: 5-Sodium isophthalic acid (1.5 mol%) copolymerized polyethylene terephthalate

\*3. NP-PET: Neopentyl glycol (20 mol%) copolymerized polyethylene terephthalate

\*4. I-PET2: 5-Sodium isophthalic acid (0.5 mol%) copolymerized polyethylene 2,6-naphthalate

\*5. PENFT: Polyethylene 2,6-naphthalate

\*6. PS: Polystyrene

\*7. NY6: Mylon-6

\*8. PMMA: Polymethyl methacrylate

\*9. PET: Polyethylene terephthalate

\*10. W1: Average thickness of polymer A layer

\*11. W2: Average thickness of polymer B layer

[Fig. 10]

Sample No.	Fiber 1	Fiber 2	Fiber 3	Fiber 4	Fiber 5	Fiber 6
n1x	1.632	1.561	1.550	1.561	1.632	1.594
n1z	1.750	1.694	1.651	1.694	1.750	1.588
n2x	1.531	1.491	1.492	1.516	1.564	1.516
n2z	1.565	1.472	1.472	1.569	1.694	1.557
n1x-n2x	0.119	0.069	0.058	0.045	0.071	0.078
n1z-n2z	0.185	0.222	0.178	0.125	0.056	0.031
Δn12 <sup>*1</sup>	0.065	0.153	0.120	0.080	-0.015	-0.047
Visual examination of polarization property	satis-factor	satis-factor	satis-factor	satis-factor	unsatis-factor	unsatis-factor
ΔE	3.36	14.9	13.8	10.6	0.83	0.35
Wavelength <sup>*2</sup>	527	631	438	470	430	840

\*1.  $\Delta n12 = |n1z - n2z| - |n1x - n2x|$

\*2. ΔE measurement wavelength

[Fig. 11]

Sample No.	Fiber 7	Fiber 8
Polymer A	PC <sup>*1</sup>	I-PENFT <sup>*2</sup>
Polymer B	PMMA <sup>*3</sup>	Ny-6 <sup>*4</sup>
SP 1	20.3	21.2
SP 2	18.3	22.5
SP ratio	1.11	0.94
W1 nm <sup>*5</sup>	230	80
W2 nm <sup>*6</sup>	259	85
Fiber reflection wavelength (nm)	1502	500
Polymer C	-	50 mmol% Co CH <sub>3</sub> COO <sub>2</sub> · 4H <sub>2</sub> O-containing I-PENFT
W3 nm <sup>*7</sup>	-	1080

\*1 PC: Polycarbonate

\*2 I-PENFT: 5-isophthalic acid (0.8 mol%) copolymerized polyethylene 2,6-naphthalate

\*3 PMMA: Polymethyl methacrylate

\*4 Ny-6: nylon-6

\*5 W1: Average thickness of polymer A layer

\*6 W2: Average thickness of polymer B layer

\*7 W3: Average thickness of polymer C layer